

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

- 91
- 1 Claim 1 (currently amended): An alloy carbon steel comprising iron and a maximum of
2 0.35% by weight of carbon, said alloy carbon steel having a triple-phase microstructure
3 comprising ferrite crystals fused with martensite-austenite crystals, said martensite-
4 austenite crystals comprising laths of martensite alternating with thin films of austenite
5 and constituting from about 5% to about 95% by weight of said triple-phase
6 microstructure.
 - 1 Claim 2 (original): An alloy carbon steel in accordance with claim 1 in which said
2 martensite-austenite crystals are devoid of carbide precipitates at interfaces between
3 phases.
 - 1 Claim 3 (canceled)
 - 1 Claim 4 (original): An alloy carbon steel in accordance with claim 1 in which said
2 martensite-austenite crystals constitute from about 15% to about 60% by weight of said
3 triple-phase microstructure.
 - 1 Claim 5 (original): An alloy carbon steel in accordance with claim 1 in which said
2 martensite-austenite crystals constitute from about 20% to about 40% by weight of said
3 triple-phase microstructure.
 - 1 Claim 6 (original): An alloy carbon steel in accordance with claim 1 in which said
2 carbon constitutes from about 0.01% to about 0.35% by weight of said triple-phase
3 microstructure.

1 Claim 7 (original): An alloy carbon steel in accordance with claim 1 in which said
2 carbon constitutes from about 0.03% to about 0.3% by weight of said triple-phase
3 microstructure.

1 Claim 8 (original): An alloy carbon steel in accordance with claim 1 in which said
2 carbon constitutes from about 0.05% to about 0.2% by weight of said triple-phase
3 microstructure.

1 Claim 9 (original): An alloy carbon steel in accordance with claim 1 further comprising
2 silicon at a concentration of from about 0.1% to about 3% by weight of said alloy
3 composition.

1 Claim 10 (original): An alloy carbon steel in accordance with claim 1 further comprising
2 silicon at a concentration of from about 1% to about 2.5% by weight of said alloy
3 composition.

1 Claim 11 (original): An alloy carbon steel in accordance with claim 1 in which said
2 carbon constitutes from about 0.03% to about 0.3% by weight of said triple-phase
3 microstructure, said alloy carbon steel further comprising silicon at a concentration of
4 from about 0.1% to about 3% by weight of said alloy composition.

1 Claim 12 (original): An alloy carbon steel in accordance with claim 1 in which said
2 carbon constitutes from about 0.05% to about 0.2% by weight of said triple-phase
3 microstructure, said alloy carbon steel further comprising silicon at a concentration of
4 from about 1% to about 2.5% by weight of said alloy composition, and containing
5 substantially no carbides.

1 Claims 13-22 (withdrawn)